K 6

```
EEEEEEEEEEEEEEE  RRRRRRRRRRRR     FFFFFFFFFFFFFFF
EEEEEEEEEEEEEEE  RRRRRRRRRRRR     FFFFFFFFFFFFFFF
EEEEEEEEEEEEEEE  RRRRRRRRRRRR     FFFFFFFFFFFFFFF
EEE              RRR         RRR  FFF
EEE              RRR         RRR  FFF
EEE              RRR         RRR  FFF
EEE              RRR         RRR  FFF
EEE              RRR         RRR  FFF
EEE              RRR         RRR  FFF
EEEEEEEEEEEE     RRRRRRRRRRRR     FFFFFFFFFFFF
EEEEEEEEEEEE     RRRRRRRRRRRR     FFFFFFFFFFFF
EEEEEEEEEEEE     RRRRRRRRRRRR     FFFFFFFFFFFF
EEE              RRR   RRR        FFF
EEE              RRR   RRR        FFF
EEE              RRR   RRR        FFF
EEE              RRR      RRR     FFF
EEE              RRR      RRR     FFF
EEE              RRR      RRR     FFF
EEEEEEEEEEEEEEE  RRR         RRR  FFF
EEEEEEEEEEEEEEE  RRR         RRR  FFF
EEEEEEEEEEEEEEE  RRR         RRR  FFF
```

```
**FILE**ID**DR11W                                                    F  8



DDDDDDDD    RRRRRRRR        11          11      WW      WW
DDDDDDDD    RRRRRRRR        11          11      WW      WW
DD      DD  RR      RR    1111        1111      WW      WW
DD      DD  RR      RR    1111        1111      WW      WW
DD      DD  RR      RR      11          11      WW      WW
DD      DD  RR      RR      11          11      WW      WW
DD      DD  RRRRRRRR        11          11      WW      WW
DD      DD  RRRRRRRR        11          11      WW      WW
DD      DD  RR  RR          11          11      WW  WW  WW
DD      DD  RR  RR          11          11      WW  WW  WW
DD      DD  RR    RR        11          11      WWWW  WWWW      ....
DD      DD  RR    RR        11          11      WWWW  WWWW      ....
DDDDDDDD    RR      RR   111111      111111     WW      WW      ....
DDDDDDDD    RR      RR   111111      111111     WW      WW      ....

LL            IIIIII    SSSSSSSS
LL            IIIIII    SSSSSSSS
LL              II    SS
LL              II    SS
LL              II    SS
LL              II    SS
LL              II      SSSSSS
LL              II      SSSSSS
LL              II              SS
LL              II              SS
LL              II              SS
LL              II              SS
LLLLLLLLLL    IIIIII    SSSSSSSS
LLLLLLLLLL    IIIIII    SSSSSSSS
```

```
C
C Version:       'V04-000'
C
C****************************************************************************
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C*                                                                          *
C*                                                                          *
C****************************************************************************
C
        SUBROUTINE DR11W (LUN)
C
C       AUTHOR  BRIAN PORTER                CREATION DATE   17-SEP-1979
C

C++
C       Functional description:
C
C       This module displays entries made for the dr11w.
C
C       Modified by:
C
C       V03-005 SAR0218         Sharon A. Reynolds,     28-Mar-1984
C               Changed the call to UCB$L_OWNUIC to ORB$L_OWNER.
C
C       V03-004 SAR0142         Sharon A. Reynolds,     4-Oct-1983
C               - Removed brief/cryptic support.
C
C       V03-003 SAR0070         Sharon A. Reynolds,     20-Jun-1983
C               Changed the carriage control in the 'format' statements
C               for use with ERF.
C
C       v03-002 BP0007          Brian Porter,           20-AUG-1982
C               Minor edit.
C
C       v03-001 BP0006          Brian Porter,           09-MAR-1982
C               Corrected output conversion error bug.
C**
C--

        INCLUDE 'SRC$:MSGHDR.FOR /NOLIST'
```

```
0116            INCLUDE 'SRC$:DEVERR.FOR /NOLIST'
0217
0218            BYTE            LUN
0219
0220            INTEGER*4       FIELD
0221            INTEGER*4       DRCSR
0222            INTEGER*4       DREIR
0223            INTEGER*4       DRIDR
0224            INTEGER*4       DRBA
0225            INTEGER*4       DRWC
0226            INTEGER*4       UBA_REGS(4)
0227            integer*4       compress4
0228
0229            logical*1       diagnostic_mode
0230
0231            EQUIVALENCE     (DRCSR,EMB$L_DV_REGSAV(2))
0232            EQUIVALENCE     (DREIR,EMB$L_DV_REGSAV(3))
0233            EQUIVALENCE     (DRIDR,EMB$L_DV_REGSAV(4))
0234            EQUIVALENCE     (DRBA,EMB$L_DV_REGSAV(5))
0235            EQUIVALENCE     (DRWC,EMB$L_DV_REGSAV(6))
0236            EQUIVALENCE     (UBA_REGS,EMB$L_DV_REGSAV(7))
0237            EQUIVALENCE     (V3DRCSR(13),V2DREIR(13))
0238
0239            PARAMETER       TIMEOUT = 96
0240
0241
0242            CHARACTER*7     V1DRCSR(0:0)
0243            DATA    V1DRCSR(0)      /'GO BIT*'/
0244
0245
0246            CHARACTER*17    V2DRCSR(6:8)
0247            DATA    V2DRCSR(6)      /'INTERRUPT ENABLE*'/
0248            DATA    V2DRCSR(7)      /'CONTROLLER READY*'/
0249            DATA    V2DRCSR(8)      /'DMA CYCLE*'/
0250
0251
0252            CHARACTER*20    V3DRCSR(13:15)
0253            DATA    V3DRCSR(13)     /'USER ATTENTION*'/
0254            DATA    V3DRCSR(14)     /'NON-EXISTENT MEMORY*'/
0255            DATA    V3DRCSR(15)     /'ERROR*'/
0256
0257
0258            CHARACTER*14    V1DREIR(0:0)
0259            DATA    V1DREIR(0)      /'READING ''EIR''*'/
0260
0261
0262            CHARACTER*24    V2DREIR(8:15)
0263            DATA    V2DREIR(8)      /'DMA BURST MODE SELECTED*'/
0264            DATA    V2DREIR(9)      /'DMA BURST USER TIMEOUT*'/
0265            DATA    V2DREIR(10)     /'MEMORY PARITY ERROR*'/
0266            DATA    V2DREIR(11)     /'AC LO*'/
0267            DATA    V2DREIR(12)     /'MULTI-CYCLE REQUEST*'/
0268
0269            CHARACTER*1     USER_STATUS(0:2)
0270            DATA    USER_STATUS(0)  /'A'/
0271            DATA    USER_STATUS(1)  /'B'/
0272            DATA    USER_STATUS(2)  /'C'/
```

```

        CALL FRCTOF (LUN)

        call dhead1 (lun,'UBA DR11W')

        diagnostic_mode = .false.

        if (lib$extzv(12,1,drcsr) .eq. 1) diagnostic_mode = .true.

        CALL LINCHK (LUN,2)

        WRITE(LUN,10) DRCSR
10      FORMAT(/' ',t8,'DRCSR',T24,Z8.4)

        if (.not. diagnostic_mode) then

        CALL OUTPUT (LUN,DRCSR,V1DRCSR,0,0,0,'0')

        FIELD = LIB$EXTZV(1,3,DRCSR)

        CALL LINCHK (LUN,1)

        WRITE(LUN,25) FIELD
25      format(' ',t40,'USER FUNCTION = ',i<compress4 (field)>,'.')

        DO 35,I = 4,5

        FIELD = LIB$EXTZV(I,1,DRCSR)

        IF (FIELD .NE. 0) THEN

        CALL LINCHK (LUN,1)

        WRITE(LUN,30) I+12
30      format(' ',t40,'EXTENDED BUS ADDRESS BIT ',i<compress4 (i+12)>,'.')
        ENDIF

35      CONTINUE

        CALL OUTPUT (LUN,DRCSR,V2DRCSR,6,6,8,'0')

        DO 45,I = 9,11

        FIELD = LIB$EXTZV(I,1,DRCSR)

        IF (FIELD .NE. 0) THEN

        CALL LINCHK (LUN,1)

        WRITE(LUN,40) USER_STATUS(FIELD),I
40      format(' ',t40,'USER STATUS ',a1,' (BIT ',i<compress4 (i)>,'.) SET')
        ENDIF

45      CONTINUE

        CALL OUTPUT (LUN,DRCSR,V3DRCSR,13,13,15,'0')
```

```
      else

      CALL LINCHK (LUN,1)

      WRITE(LUN,15)
15    FORMAT(' ',T40,'DIAGNOSTIC MODE')
      endif

      CALL LINCHK (LUN,1)

      WRITE(LUN,50) DREIR
50    FORMAT(' ',T8,'DREIR',T24,Z8.4)

      if (.not. diagnostic_mode) then

      CALL OUTPUT (LUN,DREIR,V1DREIR,0,0,0,'0')

      CALL OUTPUT (LUN,DREIR,V2DREIR,8,8,15,'0')
      endif

      CALL LINCHK (LUN,1)

      WRITE(LUN,55) DRIDR
55    FORMAT(' ',T8,'DRIDR',T24,Z8.4)

      CALL LINCHK (LUN,1)

      WRITE(LUN,60) DRBA
60    FORMAT(' ',T8,'DRBA',T24,Z8.4)

      if (.not. diagnostic_mode) then

      CALL CALC_MAP (LUN,4,DRCSR,DRBA)
      endif

      CALL LINCHK (LUN,1)

      WRITE(LUN,75) DRWC
75    FORMAT(' ',T8,'DRWC',T24,Z8.4)

      if (
     1 emb$w_hd_entry .ne. 96
     1 .or.
     1 emb$w_hd_entry .ne. 98
     1 ) then

      IF (IAND(EMB$W_DV_FUNC,'0040'X) .EQ. 0) THEN

      if (uba_regs(1) .ne. 0) then

      call uba_datapath (lun,uba_regs(1),uba_regs(2))
      endif

      call calc_map2 (4,drcsr,drba,field)

      call uba_mapping (lun,field,uba_regs(3))

```

```
        if (
        1 lib$extzv (16,16,emb$l_dv_iosb1) .gt. 512
        1 .and.
        1 field .ne. 0
        1 ) then

        call uba_mapping (lun,(field-1),uba_regs(4))
        endif
        ENDIF
        endif

        call linchk (lun,1)

        write(lun,80)
  80    format(' ',:)

        if (emb$w_hd_entry .ne. 98) then

        call ucb$b_ertcnt (lun,emb$b_dv_ertcnt)

        call ucb$b_ertmax (lun,emb$b_dv_ertmax)
        endif

        call orb$l_owner (lun,emb$l_dv_ownuic)

        call ucb$l_char (lun,emb$l_dv_char)

        call ucb$w_sts (lun,emb$w_dv_sts)

        call ucb$l_opcnt (lun,emb$l_dv_opcnt)

        call ucb$w_errcnt (lun,emb$w_dv_errcnt)

        if (emb$w_hd_entry .ne. 98) then

        call linchk (lun,1)

        write(lun,80)

        call dr11w_qio (lun,emb$w_dv_func)

        call irp$w_bcnt (lun,emb$w_dv_bcnt)

        call irp$w_boff (lun,emb$w_dv_boff)

        call irp$l_pid (lun,emb$l_dv_rqpid)

        call irp$q_iosb (lun,emb$l_dv_iosb1)
        endif

        RETURN
        END
```

```
                                                      L  8
DR11W                                            16-Sep-1984 00:19:49    VAX-11 FORTRAN V3.4-56                   Page   6
                                                  5-Sep-1984 13:52:50    DISK$VMSMASTER:[ERF.SRC]DR11W.FOR;1

PROGRAM SECTIONS

    Name                               Bytes   Attributes

  0 $CODE                               1137   PIC CON REL LCL   SHR   EXE   RD NOWRT LONG
  1 $PDATA                               292   PIC CON REL LCL   SHR NOEXE   RD NOWRT LONG
  2 $LOCAL                               976   PIC CON REL LCL NOSHR NOEXE   RD   WRT LONG
  3 EMB                                  512   PIC OVR REL GBL   SHR NOEXE   RD   WRT LONG

    Total Space Allocated               2917

ENTRY POINTS

    Address   Type  Name

  0-00000000        DR11W

VARIABLES

    Address   Type  Name                                    Address   Type  Name

  2-0000010B  L*1   DIAGNOSTIC_MODE                       3-00000066  I*4   DRBA
  3-0000005A  I*4   DRCSR                                 3-0000005E  I*4   DREIR
  3-00000062  I*4   DRIDR                                 3-0000006A  I*4   DRWC
  3-0000001C  L*1   EMB$B_DV_CLASS                        3-00000010  L*1   EMB$B_DV_ERTCNT
  3-00000011  L*1   EMB$B_DV_ERTMAX                       3-0000003E  L*1   EMB$B_DV_NAMLNG
  3-0000003A  L*1   EMB$B_DV_SLAVE                        3-0000001D  L*1   EMB$B_DV_TYPE
  3-00000036  I*4   EMB$L_DV_CHAR                         3-00000012  I*4   EMB$L_DV_IOSB1
  3-00000016  I*4   EMB$L_DV_IOSB2                        3-00000026  I*4   EMB$L_DV_MEDIA
  3-0000004E  I*4   EMB$L_DV_NUMREG                       3-0000002E  I*4   EMB$L_DV_OPCNT
  3-00000032  I*4   EMB$L_DV_OWNUIC                       3-0000001E  I*4   EMB$L_DV_RQPID
  3-00000000  I*4   EMB$L_HD_SID                          3-0000003F  CHAR  EMB$T_DV_NAME
  3-00000024  I*2   EMB$W_DV_BCNT                         3-00000022  I*2   EMB$W_DV_BOFF
  3-0000002C  I*2   EMB$W_DV_ERRCNT                       3-0000003C  I*2   EMB$W_DV_FUNC
  3-0000001A  I*2   EMB$W_DV_STS                          3-0000002A  I*2   EMB$W_DV_UNIT
  3-00000004  I*2   EMB$W_HD_ENTRY                        3-0000000E  I*2   EMB$W_HD_ERRSEQ
  2-0000010C  I*4   FIELD                                 2-00000110  I*4   I
 AP-00000004@ L*1   LUN

ARRAYS

    Address   Type  Name                                  Bytes  Dimensions

  3-00000000  L*1   EMB                                     512  (0:511)
  3-00000052  I*4   EMB$L_DV_REGSAV                         420  (0:104)
  3-00000006  I*4   EMB$Q_HD_TIME                             8  (2)
  3-0000006E  I*4   UBA_REGS                                 16  (4)
  2-00000108  CHAR  USER_STATUS                               3  (0:2)
  2-000000C0  CHAR  V1DRCSR                                   7  (0:0)
  2-000000FA  CHAR  V1DREIR                                  14  (0:0)
  2-000000C7  CHAR  V2DRCSR                                  51  (6:8)
  2-00000000  CHAR  V2DREIR                                 192  (8:15)
  2-00000078  CHAR  V3DRCSR                                  60  (13:15)
```

```
                                                                M  8
DR11W                                                       16-Sep-1984 00:19:49    VAX-11 FORTRAN V3.4-56                   Page   7
                                                             5-Sep-1984 13:52:50    DISK$VMSMASTER:[ERF.SRC]DR11W.FOR;1

LABELS

   Address   Label       Address   Label       Address   Label       Address   Label       Address   Label       Address   Label

 1-00000038  10'       1-000000C2  15'       1-0000004B  25'       1-0000006C  30'            **     35        1-00000096  40'
      **     45        1-000000D9  50'       1-000000EB  55'       1-000000FD  60'       1-0000010E  75'       1-0000011F  80'

FUNCTIONS AND SUBROUTINES REFERENCED

  Type  Name              Type  Name              Type  Name              Type  Name              Type  Name              Type  Name

        CALC_MAP                CALC_MAP2         I*4   COMPRESS4               DHEAD1                  DR11W_QIO               FRCTOF
        IRP$L_PID               IRP$Q_IOSB              IRP$W_BCNT              IRP$W_BOFF        I*4   LIB$EXTZV               LINCHK
        ORB$L_OWNER             OUTPUT                  UBA_DATAPATH            UBA_MAPPING             UCB$B_ERTCNT            UCB$B_ERTMAX
        UCB$L_CHAR              UCB$L_OPCNT             UCB$W_ERRCNT            UCB$W_STS



        subroutine dr11w_qio (lun,emb$w_dv_func)



        include 'src$:qiocommon.for /nolist'



        byte            lun

        integer*2       emb$w_dv_func

        integer*4       qiocode(0:1,0:63)




        if (qiocode(0,0) .eq. 0) then

        qiocode(1,11) = %loc(io$_writepblk)

        qiocode(1,12) = %loc(io$_readpblk)

        qiocode(1,26) = %loc(io$_setchar)

        qiocode(1,27) = %loc(io$_sensechar)

        qiocode(1,32) = %loc(io$_writelblk)

        qiocode(1,35) = %loc(io$_setmode)

        qiocode(1,39) = %loc(io$_sensemode)

        qiocode(1,48) = %loc(io$_writevblk)

        qiocode(1,49) = %loc(io$_readvblk)

        do 10,i = 0,63

        qiocode(0,i) = 33

        if (qiocode(1,i) .eq. 0) then

        qiocode(1,i) = %loc(qio_string)
        endif

10      continue
        endif

        call irp$w_func (lun,emb$w_dv_func,
        1 qiocode(0,lib$extzv(0,6,emb$w_dv_func)))

        return

```

```
0321            end


PROGRAM SECTIONS

    Name                                       Bytes   Attributes

  0 $CODE                                        159   PIC CON REL LCL   SHR   EXE   RD NOWRT LONG
  1 $PDATA                                         8   PIC CON REL LCL   SHR NOEXE   RD NOWRT LONG
  2 $LOCAL                                       548   PIC CON REL LCL NOSHR NOEXE  RD   WRT LONG
  3 QIOCOMMON                                   1247   PIC OVR REL GBL   SHR NOEXE   RD   WRT LONG

    Total Space Allocated                       1962

ENTRY POINTS

    Address   Type  Name

  0-00000000        DR11W_QIO

VARIABLES

    Address   Type  Name                                 Address   Type  Name

 AP-00000008@ I*2   EMB$W_DV_FUNC                       2-00000200  I*4   I
   3-00000442 CHAR  IO$_ABORT                          3-0000034D  CHAR  IO$_ACCESS
   3-000003C2 CHAR  IO$_ACPCONTROL                     3-000004B3  CHAR  IO$_AVAILABLE
   3-00000297 CHAR  IO$_CLEAN                          3-00000369  CHAR  IO$_CREATE
   3-00000385 CHAR  IO$_DEACCESS                       3-00000393  CHAR  IO$_DELETE
   3-0000026D CHAR  IO$_DIAGNOSE                       3-00000065  CHAR  IO$_DRVCLR
   3-000004CB CHAR  IO$_DSE                            3-000000A9  CHAR  IO$_ERASETAPE
   3-00000276 CHAR  IO$_FORMAT                         3-00000071  CHAR  IO$_INITIALIZE
   3-00000014 CHAR  IO$_LOADMCODE                      3-000003A1  CHAR  IO$_MODIFY
   3-000003E2 CHAR  IO$_MOUNT                          3-00000000  CHAR  IO$_NOP
   3-0000009D CHAR  IO$_OFFSET                         3-000000EB  CHAR  IO$_PACKACK
   3-000000E0 CHAR  IO$_QSTOP                          3-000003EF  CHAR  IO$_RDSTATS
   3-00000421 CHAR  IO$_READCSR                        3-00000169  CHAR  IO$_READHEAD
   3-000002B6 CHAR  IO$_READLBLK                       3-0000013F  CHAR  IO$_READPBLK
   3-00000200 CHAR  IO$_READPRESET                     3-00000195  CHAR  IO$_READTRACKD
   3-0000033A CHAR  IO$_READVBLK                       3-0000045A  CHAR  IO$_READWTHBUF
   3-00000484 CHAR  IO$_READWTHXBUF                    3-0000004D  CHAR  IO$_RECAL
   3-0000007C CHAR  IO$_RELEASE                        3-000001AB  CHAR  IO$_REREADN
   3-000001B8 CHAR  IO$_REREADP                        3-000000CA  CHAR  IO$_RETCENTER
   3-000002E6 CHAR  IO$_REWIND                         3-000002C9  CHAR  IO$_REWINDOFF
   3-000000FC CHAR  IO$_SEARCH                         3-00000024  CHAR  IO$_SEEK
   3-00000231 CHAR  IO$_SENSECHAR                      3-00000309  CHAR  IO$_SENSEMODE
   3-0000021D CHAR  IO$_SETCHAR                        3-000003B8  CHAR  IO$_SETCLOCK
   3-00000088 CHAR  IO$_SETCLOCKP                      3-000002DD  CHAR  IO$_SETMODE
   3-000002ED CHAR  IO$_SKIPFILE                       3-000002FA  CHAR  IO$_SKIPRECORD
   3-00000029 CHAR  IO$_SPACEFILE                      3-0000010E  CHAR  IO$_SPACERECORD
   3-000003D7 CHAR  IO$_STARTDATA                      3-000000B4  CHAR  IO$_STARTDATAP
   3-00000037 CHAR  IO$_STARTMPROC                     3-0000020F  CHAR  IO$_STARTSPNDL
   3-00000059 CHAR  IO$_STOP                           3-0000000D  CHAR  IO$_UNLOAD
  3-0000046B  CHAR IO$_WRITEBUFNCRC                     3-0000011E  CHAR IO$_WRITECHECK
  3-000001E4  CHAR IO$_WRITECHECKH                      3-000003FF  CHAR IO$_WRITECSR
  3-00000153  CHAR IO$_WRITEHEAD                        3-000002A2  CHAR IO$_WRITELBLK
  3-00000247  CHAR IO$_WRITEMARK                        3-00000314  CHAR IO$_WRITEOF
  3-0000012A  CHAR IO$_WRITEPBLK                        3-000001C9  CHAR IO$_WRITERET
  3-0000017E  CHAR IO$_WRITETRACKD                      3-00000326  CHAR IO$_WRITEVBLK
  3-00000448  CHAR IO$_WRITEWTHBUF                      3-00000257  CHAR IO$_WRTTMKR
 AP-00000004@ L*1  LUN                                  3-000004A1  CHAR QIO_STRING

ARRAYS

   Address  Type  Name                    Bytes  Dimensions

 2-00000000  I*4  QIOCODE                   512  (0:1, 0:63)

LABELS

   Address   Label

     **      10

FUNCTIONS AND SUBROUTINES REFERENCED

 Type  Name              Type  Name

       IRP$W_FUNC         I*4  LIB$EXTZV

COMMAND QUALIFIERS

  FORTRAN /LIS=LIS$:DR11W/OBJ=OBJ$:DR11W MSRC$:DR11W

  /CHECK=(NOBOUNDS,OVERFLOW,NOUNDERFLOW)
  /DEBUG=(NOSYMBOLS,TRACEBACK)
  /STANDARD=(NOSYNTAX,NOSOURCE_FORM)
  /SHOW=(NOPREPROCESSOR,NOINCLUDE,MAP)
  /F77  /NOG_FLOATING  /I4  /OPTIMIZE  /WARNINGS  /NOD_LINES  /NOCROSS_REFERENCE  /NOMACHINE_CODE  /CONTINUATIONS=19

COMPILATION STATISTICS

  Run Time:             5.89 seconds
  Elapsed Time:         17.08 seconds
  Page Faults:          245
  Dynamic Memory:       200 pages
```

0147 AH-BT13A-SE
VAX/VMS V4.0

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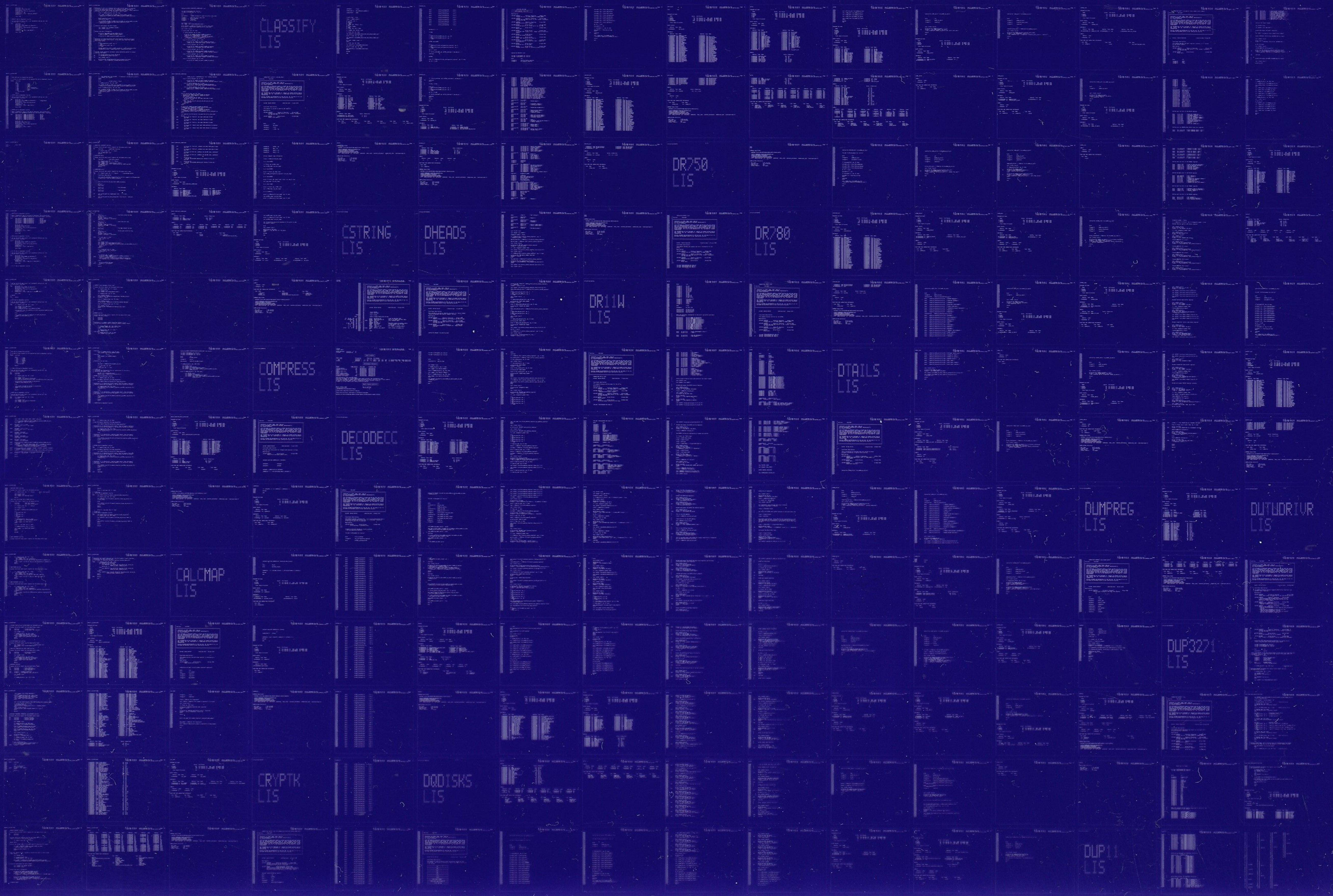

CLASSIFY
LIS

DR750
LIS

CSTRING
LIS

DHEADS
LIS

DR780
LIS

DR11W
LIS

COMPRESS
LIS

DTAILS
LIS

DECODECC
LIS

DUMPREG
LIS

DUTUDRIVR
LIS

CALCMAP
LIS

DUP3271
LIS

CRYPTK
LIS

DQDISKS
LIS

DUP11
LIS